

5658759

08/633013

O. G. FIG.	SUBCLASS
CLASS	735691
APPROVED BY	MOORE

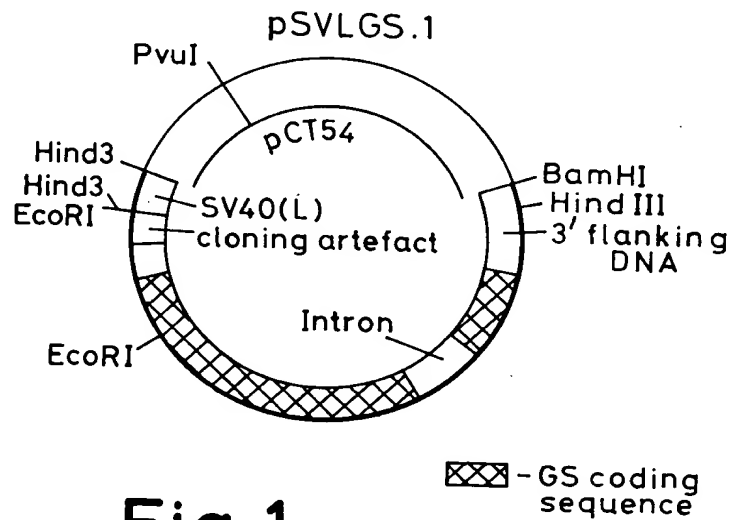


Fig. 1

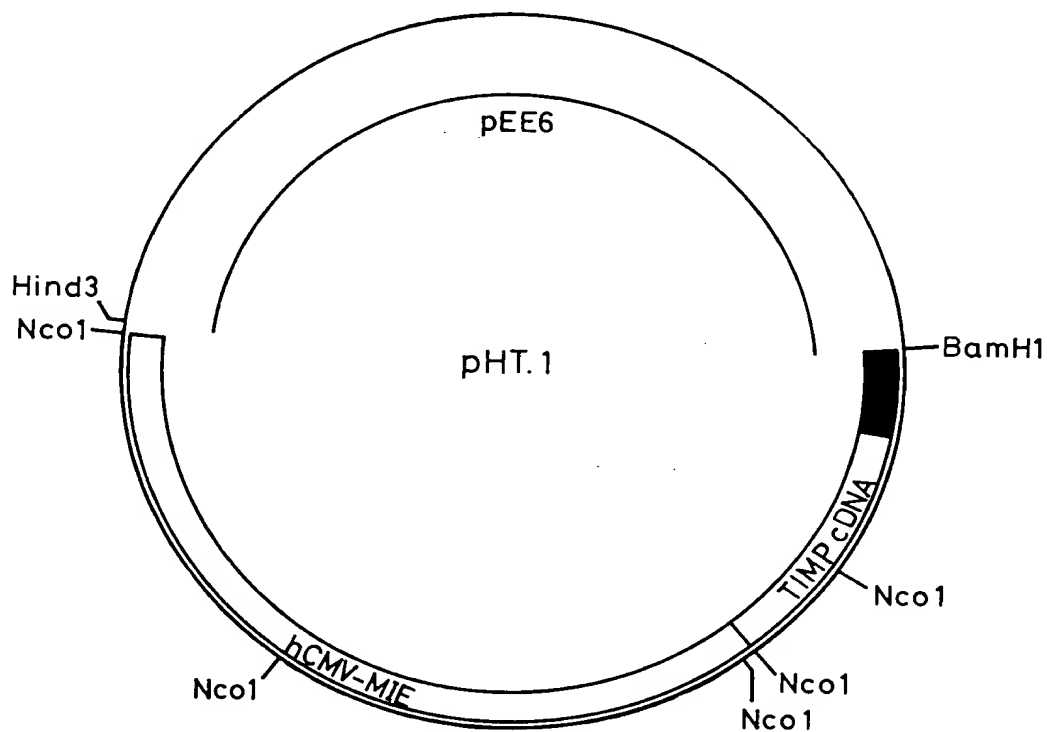


Fig. 2

APPROVED BY DRAFTSMAN	O. C. FIG.	
	CLASS	SUBCLASS

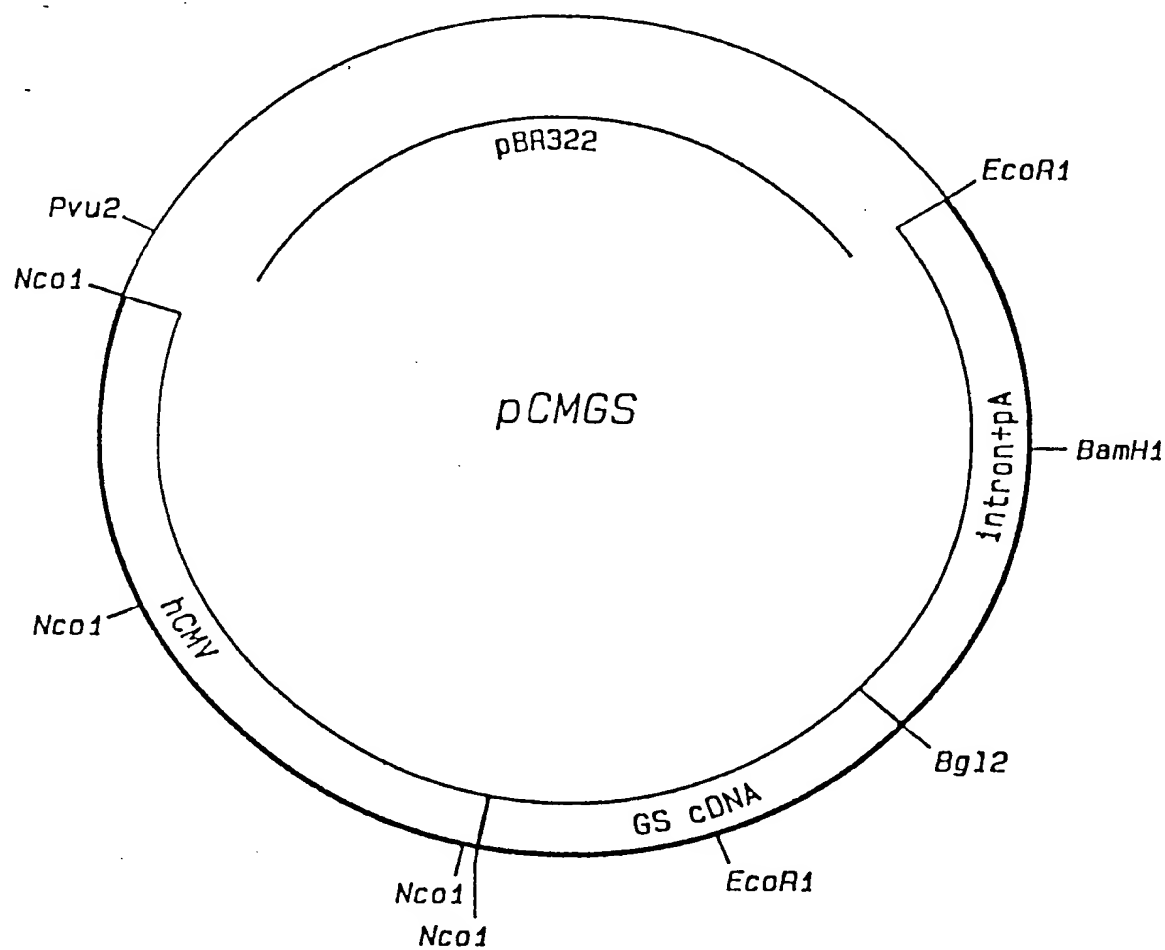


Fig. 3

O.G. FIG.	SUBCLASS
	CLASS
APPROVED	BY
DATE	

DNS	p	T	AM
sct	s	t	fl
aoy	t	3	lu
111	1	2	31
//			/

1 CCATGGTGTCAAGGACGGTGACTGCAGTGAATAATAAAATGTGTGTTTGTCCGAAATACG 60
 -----+-----+-----+-----+-----+
 GGTACCACAGTTCCTGCCACTGACGTCACCTATTATTTTACACACAAACAGGCTTTATGC

61 CGTTTTGAGATTTCTGTGCGCCGACTAAATTCATGTGCGCGGATAGTGGTGTATTCGCCG 120
 -----+-----+-----+-----+-----+
 GCAAAACTCTAAAGACAGCGGCTGATTTAAGTACAGCGCGCTATCACCACAAATAGCGGC

121 ATAGAGATGGCGATATTGGAAAAATCGATATTTGAAAAATATGGCATATTGAAAAATGTCGC 180
 -----+-----+-----+-----+-----+
 TATCTCTACCGCTATAACCTTTTTAGCTATAAACTTTTATACCGTATAACTTTTACAGCG

181 CGATGTGAGTTTCTGTGTAAGTATCGCCATTTTTCCAAAAGTGATTTTTGGGCATAC 240
 -----+-----+-----+-----+-----+
 GCTACACTCAAAGACACATTGACTATAGCGGTAAAAAGGTTTTCACTAAAAACCCGTATG

241 GCGATATCTGGCGATAGCGGCTTATATCGTTTACGGGGGATGGCGATAGACGACTTTGGT 300
 -----+-----+-----+-----+-----+
 CGCTATAGACCGCTATCGCCGAATATAGCAAATGCCCCCTACCGCTATCTGCTGAAACCA

301 GACTTGGGCGATTCTGTGTGTCGCAAATATCGCAGTTTCGATATAGGTGACAGACGATAT 360
 -----+-----+-----+-----+-----+
 CTGAACCCGCTAAGACACACAGCGTTTATAGCGTCAAAGCTATATCCACTGTCTGCTATA

361 GAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGGCCAATGCATATCGATCT 420
 -----+-----+-----+-----+-----+
 CTCCGATATAGCGGCTATCTCCGCTGTAGTTCGACCGTGTACCGGTTACGTATAGCTAGA

Fig. 4A

O.G. FIG.	SUBCLASS
	CLASS
APPROVED BY	DATE

S C BH
s f aa
p r le
1 1 11

421 ATACATTGAATCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCA
-----+-----+-----+-----+-----+ 480
TATGTAACCTTAGTTATAACCGGTAATCGGTATAATAAGTAACCAATATATCGTATTTAGT

S C BH
s f aa
p r le
1 1 11

481 ATATTGGCTATTGGCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTG
-----+-----+-----+-----+-----+ 540
TATAACCGATAACCGGTAACGTATGCAACATAGGTATAGTATTATACATGTAAATATAAC

H
i M S
n m p
c e e
2 1 1

541 GTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAAT
-----+-----+-----+-----+-----+ 600
CGAGTACAGGTTGTAATGGCGGTACAACCTGTAACCTAATAACTGATCAATAATTATCATT

601 CAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGG
-----+-----+-----+-----+-----+ 660
GTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAATGCC

B A A
g h a
l a t
1 2 2

661 TAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATGACGTCAATAATGACGT
-----+-----+-----+-----+-----+ 720
ATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGCGGGTAACCTGCAGTTATTACTGCA

A A
h a
a t
2 2

721 ATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTAC
-----+-----+-----+-----+-----+ 780
TACAAGGGTATCATTGCGGTTATCCCTGAAAGGTAACCTGCAGTTACCCACCTCATAAATG

B N
g d
l e
1 1

781 GGTAAGTGGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTG
-----+-----+-----+-----+-----+ 840
CCATTTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAAC

Fig. 4 B

O.G. FIG.	SUBCLASS
CLASS	BY
APPROVED	DATE

A A B
 h a g
 a t l
 2 2 1
 ACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACT
 841 -----+-----+-----+-----+-----+ 900
 TGCAGTTACTGCCATTTACCGGGCGGACCGTAATACGGGTCATGTACTGGAATACCCTGA

 S
 n
 a DNS
 B sct
 1 aoy
 111
 //
 TTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTT
 901 -----+-----+-----+-----+-----+ 960
 AAGGATGAACCGTCATGTAGATGCATAATCAGTAGCGATAATGGTACCACTACGCCAAAA

 GGCAGTACATCAATGGGCGTGGATAGCGGTTTGA CTCACGGGGATTTC CAAGTCTCCACC
 961 -----+-----+-----+-----+-----+ 1020
 CCGTCATGTAGTTACCCGCACCTATCGCCAAACTGAGTGCCCTAAAGGTT CAGAGGTGG

 A A B
 h a a
 a t n
 2 2 1
 CCATTGACGTCAATGGGAGTTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTC
 1021 -----+-----+-----+-----+-----+ 1080
 GGTAAGTGCAGTTACCCTCAAACAAAACCGTG GTTTTAGTTGCCCTGAAAGGTTTTACAG

 GTAACAAC TCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
 1081 -----+-----+-----+-----+-----+ 1140
 CATTGTTGAGGCGGGGTA ACTGCGTTTACCCGCCATCCGCACATGCCACCCTCCAGATAT

 BH
 BssS
 apia G A
 n1Ac s h
 2211 u a
 1 2
 ///
 TAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTG
 1141 -----+-----+-----+-----+-----+ 1200
 ATTCGTCTCGAGCAAATCACTTGGCAGTCTAGCGGACCTCTGCGGTAGGTGCGACAAAAC

 B N
 b D BCGsSX
 v s gfdpam
 2 a lriBca
 1 112223
 ////
 ACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCGGCCGGGAACGGTGCATTGGAA
 1201 -----+-----+-----+-----+-----+ 1260
 TGGAGGTATCTTCTGTGGCCCTGGCTAGGTCGGAGGCGCCGGCCCTTGCCACGTAACTT

Fig. 4C

O.G. FIG.	SUECLASS
	CLASS
BY	DATE

CGCGGATTCCCCGTGCCAAGAGTGACGTAAGTACCGCCTATAGAGTCTATAGGCCACCC
 1261-----+-----+-----+-----+-----+-----+-----+ 1320
 GCGCCTAAGGGGCACGGTTCTCACTGCATTCATGGCGGATATCTCAGATATCCGGGTGGG

B	N
Ss	N ss
tt	s pp
yX	i Hh
11	1 11

CCTTGGCTTCTTATGCATGCTATACTGTTTTTGGCTTGGGGTCTATACACCCCCGCTTCC
 1321-----+-----+-----+-----+-----+-----+ 1380
 GGAACCGAAGAATACGTACGATATGACAAAAACCGAACCCAGATATGTGGGGGCGAAGG

E
S
P
1

TCATGTTATAGGTGATGGTATAGCTTAGCCTATAGGTGTGGGTATTGACCATTATTGAC
 1381-----+-----+-----+-----+-----+-----+ 1440
 AGTACAATATCCACTACCATATCGAATCGGATATCCACACCCAATAACTGGTAATAACTG

P
f
l
M
1

CACTCCCCCTATTGGTGACGATACTTTCCATTACTAATCCATAACATGGCTCTTTGCCACA
 1441-----+-----+-----+-----+-----+-----+ 1500
 GTGAGGGGATAACCACTGCTATGAAAGGTAATGATTAGGTATTGTACCGAGAAACGGTGT

E
C
O
5
7

ACTCTCTTTATTGGCTATATGCCAATACACTGTCCTTCAGAGACTGACACGGACTCTGTA
 1501-----+-----+-----+-----+-----+-----+ 1560
 TGAGAGAAATAACCGATATACGGTTATGTGACAGGAAGTCTCTGACTGTGCCTGAGACAT

E
C
O
3
1

TTTTTACAGGATGGGGTCTCATTTATTATTACAAATTCACATATACAACACCACCGTCC
 1561-----+-----+-----+-----+-----+-----+ 1620
 AAAAATGTCCTACCCCAGAGTAAATAAATGTTTAAGTGTATATGTTGTGGTGGCAGG

B
S
P
1
2

X
h
O
2

A
v
a
1
3

CCAGTGCCCGCAGTTTTTATTAAACATAACGTGGGATCTCCACGCGAATCTCGGGTACGT
 1621-----+-----+-----+-----+-----+-----+ 1680
 GGTACGGGCGTCAAAAATAATTTGTATTGCACCCTAGAGGTGCGCTTAGAGCCCATGCA

Fig. 4D

O.G. FIG.	SUBCLASS
	CLASS
BY	DEFINITION

B
S
p
M
2

B
Bs
ap
n1
22
/

B
Bs
ap
n1
22
/

1681 GTTCCGGACATGGGCTCTTCTCCGGTAGCGGCGGAGCTTCTACATCCGAGCCCTGCTCCC
 -----+-----+-----+-----+-----+-----+-----+ 1740
 CAAGGCCTGTACCCGAGAAGAGGCCATCGCCGCCTCGAAGATGTAGGCTCGGGACGAGGG

G
S
u
1

H
a
e
1

1741 ATGCCTCCAGCGACTCATGGTCGCTCGGCAGCTCCTTGCTCCTAACAGTGAGGCCAGAC
 -----+-----+-----+-----+-----+-----+-----+ 1800
 TACGGAGGTCGCTGAGTACCAGCGAGCCGTCGAGGAACGAGGATTGTACCTCCGGTCTG

D
S
a
1

1801 TTAGGCACAGCACGATGCCCCACCACCAGTGTGCCGCACAAGGCCGTGGCGGTAGGGT
 -----+-----+-----+-----+-----+-----+-----+ 1860
 AATCCGTGTCGTGCTACGGGTGGTGGTGGTCACACGGCGTGTTCGGGCACCGCCATCCCA

BH
ABsgS
vapia
an1Ac
12211
///

N
S
p
B
2

A B
f b
1 v
2 2

1861 ATGTGTCTGAAAATGAGCTCGGGGAGCGGGCTTGACCCGCTGACGCATTTGGAAGACTTA
 -----+-----+-----+-----+-----+-----+-----+ 1920
 TACACAGACTTTTACTCGAGCCCCCTCGCCGAACGTGGCGACTGCGTAAACCTTCTGAAT

N
S
p
B
2

N
sP
pv
Bu
22
/

1921 AGGCAGCGGCAGAAGAAGATGCAGGCAGCTGAGTTGTTGTGTTCTGATAAGAGTCAGAGG
 -----+-----+-----+-----+-----+-----+-----+ 1980
 TCCGTGCGCGTCTTCTTCTACGTCCGTCGACTCAACAACACAAGACTATTCTCAGTCTCC

H
iH
np
ca
21
/

S
c
a
1

1981 TAACTCCCGTTGCGGTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTS
 -----+-----+-----+-----+-----+-----+-----+ 2040
 ATTGAGGGCAACGCCACGACAATTGCCACCTCCCGTCACATCAGACTCGTCATGAGCAAC

Fig. 4E

O.G. FIG.	CLASS	
	SUBCLASS	
BY	CLASS	
BY	SUBCLASS	

B B
S S
S S
H H
2 2

DNS
sct
aoy
111
//

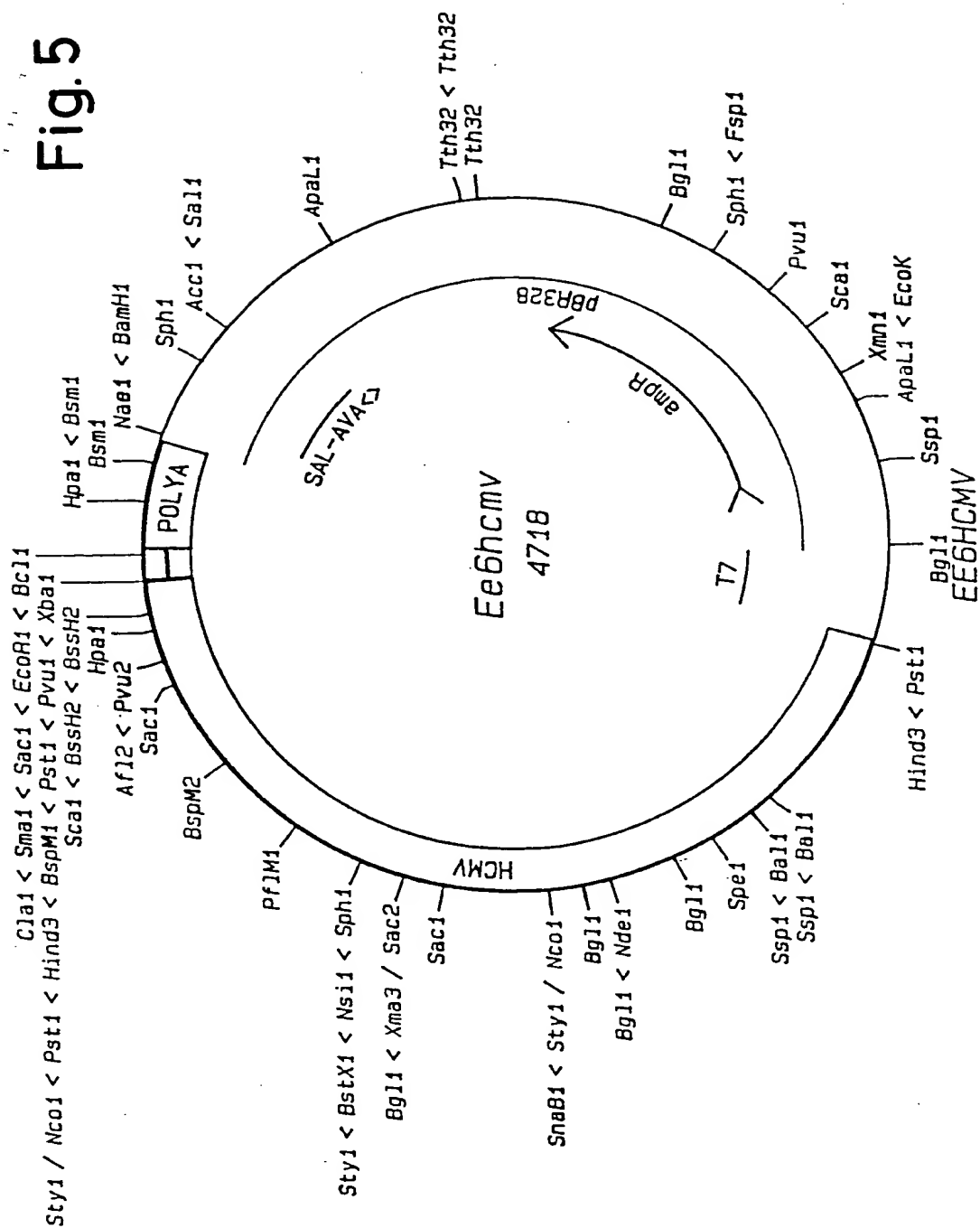
2041-----+-----+-----+-----+-----+-----+-----+ 2100
CTGCCGCGCGCGCCACCAGACATAATAGCTGACAGACTAACAGACTGTTTCCTTTCCATGG
GACGGCGCGCGCGGTGGTCTGTATTATCGACTGTCTGATTGTCTGACAAGGAAAGGTACC

P DNS
s sct
t aoy
1 111

2101-----+-----+-----+-----+-----+-----+-----+
GTCTTTTCTGCAGTCACCGTCCTTGACACCATG
CAGAAAAGACGTCAGTGGCAGGAAGTGTG

Fig.4F

Fig.5



INSERT HCMV PROMOTER FRAGMENT IN THE HIND3 SITE OF EE6

Mismatch: 0 MinCuts = 1 MaxCuts: 3